

**ABSTRACT**

Disclosed are methods of introducing a suspension or solution of a medicament, preferably mometasone furoate anhydrous, into a metered dose inhaler container, said container having a valve attached thereto, said method comprising the steps of introducing mometasone furoate anhydrous, a surfactant and a chlorflourocarbon free propellant into a vessel that is held under pressure to form a suspension or solution, circulating said suspension or solution from the vessel through a line which includes a filling head, bringing said filling head into communication with said metered dose inhaler container through said valve of said metered dose inhaler container, introducing a quantity of such suspension or solution into the container from the filling head of the line through said valve of said metered dose inhaler container, withdrawing said filling head from said metered dose inhaler container, and sealing said metered dose inhaler container, as well as the products produced thereby having an improved particle size distribution of the active ingredients in metered dose inhalers.